

## APPENDICES

---

## GLOSSARY

Included in the following pages are a number of terms with appropriate definitions to assist the reader in understanding the technical language included in this document.

**Air taxi:** an operator which: (1) performs at least five round trips per week between two or more points and publish flight schedules which specify the times, days of the week and places between which such flights are performed; or (2) transport mail by air pursuant to a current contract with the U.S. Postal Service.

**Airport traffic control tower (ATCT):** a central operations facility in the terminal air traffic control system, consisting of a tower, including an associated IFR room if radar equipped, using air/ground communications and/or radar, visual signaling and other devices, to provide safe and expeditious movement of terminal air traffic.

**Air route traffic control center (ARTCC):** a facility established to provide air traffic control service to aircraft operating on an IFR flight plan within controlled airspace and principally during the enroute phase of flight.

**Approach Lighting system (ALS):** an airport lighting facility which provides visual guidance to landing aircraft by radiating light beams by which the pilot aligns the aircraft with the extended centerline of the runway on his final approach and landing.

**Azimuth:** horizontal direction or bearing; usually measured from the reference point of 0 degrees clockwise through 360 degrees.

**Base leg:** a flight path at right angles to the landing runway off its approach end. The base leg normally extends from the downwind leg to the intersection of the extended runway centerline.

**Compass locator (LOM (LMM)):** a low power low/medium frequency radio-beacon installed in conjunction with the instrument landing system at one or two of the marker sites.

**Control zone:** airspace extending upward from the ground which may include one or more airports and is normally a circular area of five statute miles in radius with extensions where necessary to include instrument approach and departure paths.

**Displaced threshold:** a threshold that is located at one point on the runway other than the designated beginning of the runway.

**Distance Measuring Equipment (DME):** equipment (airborne and ground) used to measure, in nautical miles, the slant range distance of an aircraft from the DME navigational aid.

**Downwind leg:** length of time, in seconds, a noise event such as an aircraft flyover is experienced. (May refer to the length of time a noise event exceeds a specified threshold level).

**Duration:** length of time, in seconds, a noise event such as an aircraft flyover is experienced. (May refer to the length of time a noise event exceeds a specified threshold level.)

**Enplaned passengers:** the total number of revenue passengers boarding aircraft, including originating, stop-over, and transfer passengers, in scheduled and non-scheduled threshold level.)

**FBO (Fixed Base Operator):** a provider of service to users of an airport. Such services include, but are not limited to, fueling, hangaring, flight training, repair and maintenance.

**General aviation:** that portion of civil aviation which encompasses all facets of aviation except air carriers holding a Certificate of Convenience and Necessity, and large aircraft commercial operators.

**Glide slope:** electrical equipment that emits signals which provide vertical guidance by reference to airborne instruments during instrument approaches such as an ILS, or visual ground aids, such as VASI, which provide vertical guidance for a VFR approach or for the visual portion of an instrument approach and landing.

**Ground effect:** the excess attenuation attributed to absorption or reflection of noise by man-made or natural features on the ground surface.

**Instrument approach:** a series of predetermined maneuvers for the orderly transfer of an aircraft under instrument flight conditions from the beginning of the initial approach to a landing, or to a point from which a landing may be made visually. It is prescribed and approved for a specific airport by competent authority.

**Instrument Flight Rules (IFR):** rules governing the procedures for conducting instrument flight. Also a term used by pilots and controllers to indicate type of flight plan.

**Instrument Landing System (ILS):** a precision instrument approach system which normally consists of the following electronic components and visual aids: localizer, glide slope, outer marker, middle market, and approach lights.

**Ldn:** day-night noise level. The daily average noise metric in which that noise occurring between 10:00 p.m. and 7:00 a.m. is penalized by 10 decibels.

**Localizer (LOC):** providing horizontal guidance to the runway centerline for aircraft during approach and landing by radiating a directional pattern of radio waves modulated by two signals which, when received with equal intensity, are displayed by compatible airborne equipment as an "on-course" indication, and when received in unequal intensity are displayed as an "off-course" indication.

**Localizer type directional aid (LDA):** a facility of comparable utility and accuracy to a localizer, but is not part of a complete ILS and is not aligned with the runway.

**Microwave Landing System (MLS):** an instrument approach and landing system that provides precision guidance in azimuth, elevation, and distance measurement.

**Missed approach:** an instrument approach not completed by landing. This may be due to visual contact not established at authorized minimums or instructions from air traffic control, or other reasons.

**Non-directional beacon (NDB):** a radio beacon transmitting non-directional signals that a pilot of an aircraft equipped with direction finding equipment can determine his/her bearing to or from the radio beacon and "home" on or track to or from the station. When the radio beacon is installed in conjunction with the Instrument Landing System market, it is normally called a Compass Locator.

**Nonprecision approach procedure:** a standard instrument approach procedure in which no electronic glide slope is provided, such as VOR, TACAN, NDB, or LOC>

**Operation:** a take-off or a landing.

**Outer market (OM):** an ILS navigation facility in the terminal area navigation system located four to seven miles from the runway edge on the extended centerline indicating to the pilot, that he/she is passing over the facility and can begin final approach.

**Precision approach procedure:** a standard instrument approach procedure in which an electronic glide slope is provided, such as ILS.

**Precision instrument runway:** a runway having a existing Instrument Landing System (ILS).

**Reliever Airport:** an airport to serve general aviation aircraft which might otherwise use a congested air-carrier served airport.

**Vector:** a heading issued to an aircraft to provide navigational guidance by radar.

**Victor airway:** a control area or portion thereof established in the form of a corridor, the centerline of which is defined by radio navigational aids.

**Visual approach:** an approach wherein an aircraft on an IFR flight plan, operating in VFR conditions under the control of an air traffic facility and having an air traffic control authorization, may proceed to the airport of destination in VFR conditions.

**Visual approach slope indicator (VASI):** an airport lighting facility in the terminal area navigation system used primarily under VFR conditions. It provides vertical visual guidance to aircraft during approach and landing, by radiating a pattern of high intensity red and white focused light beams which indicate to the pilot that he/she is above, on, or below the glide path.

**Visual Flight Rules (VFR):** rules that govern the procedures for conducting flight under visual conditions. The term VFR is also used in the United States to indicate weather conditions that are equal to or greater than minimum VFR requirements. In addition, it is used by pilots and controllers to indicate type of flight plan.

**VOR/Very High Frequency Omnidirectional Range Station:** a ground-based electronic navigation aid transmitting very high frequency navigation signals, 360 degrees in azimuth, oriented from magnetic north. Used as the basis for navigation in the national airspace system. The VOR periodically identifies itself by Morse Code and may have an additional voice identification feature.

**VORTAC/VHF Omnidirectional Range/Tactical Air Navigation:** a navigation aid providing VOR azimuth, TACAN azimuth, and TACAN distance-measuring equipment (DME) at one site.

## ABBREVIATIONS

AGL: above ground level

ARSA: airport radar service area

ARTCC: air route traffic control center

ATCT: air traffic control tower

DME: distance measuring equipment

DW: runway weight bearing capacity for aircraft with dual-wheel type landing gear

DTW: runway weight bearing capacity for aircraft with dual-tandem type landing gear

FAA: Federal Aviation Administration

F.A.R.: Federal Aviation Regulations

FBO: fixed base operator

GS: glide slope

IFR: instrument flight rules (F.A.R. Part 91)

ILS: instrument landing system

Ldn: day-night noise level

LMM: compass locator at middle marker

LOC: ILS localizer

LOM: compass locator at outer marker

MLS: Microwave landing system

MM: middle marker

MSL: mean sea level

NAVAID: navigational aid

NDB: non-directional beacon

OM: outer marker

SEL: sound exposure level

**SW:** runway weight bearing capacity for aircraft with single-wheel type landing gear

**TRACON:** terminal radar approach control

**VASI:** visual approach slope indicator

**VFR:** visual flight rules (F.A.R. Part 91)

**VHF:** very high frequency

**VOR:** very high frequency omnidirectional range

**VORTAC:** (see VOR and TACAN)



---

**KANSAS CITY**  
**(816) 942-9200**

1300 E. 104th Street  
Suite 100  
Kansas City, MO 64131

---

**PHOENIX**  
**(602) 993-6999**

11022 N. 28th Drive  
Suite 240  
Phoenix, AZ 85029